

BULLETIN

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PART 2

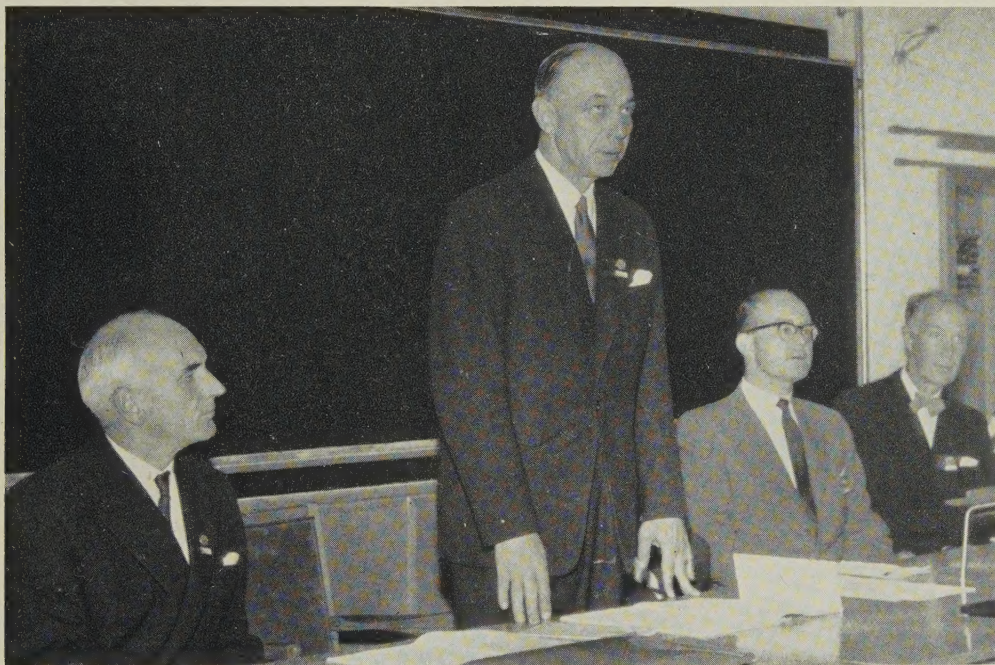
AUTUMN MEETING IN SCANDINAVIA

Those who were fortunate enough to take part were agreed that the recently completed Autumn Meeting of The Institute in Scandinavia was one of the most successful of its kind that has been held, and it was well attended.

The meeting in Sweden was held by invitation of Bolidens Gruv AB, AB Svenska Metallverken, and the Metallografiska

Professor Erik Rudberg (Corresponding Member to the Council for Sweden), who was until recently Director of the Metallografiska Institutet and is now Secretary of The Royal Swedish Academy of Sciences. The lecture will be published in the November issue of the *Journal*.

On the Tuesday morning there were most interesting dis-



The opening session at the Kungl. Tekniska Högskolan in Stockholm. Left to right: Mr. G. L. Bailey (President), Mr. C. A. Jacobsson, Managing Director of AB Svenska Metallverken, Mr. L. Tillberg, and Professor Erik Rudberg, the Autumn Lecturer, and Corresponding Member to the Council for Sweden.

Institutet, and took place in Stockholm from Monday to Friday, 21 to 25 September, while the extension of the meeting to Denmark, by invitation of the Danish Society of Metals, was in Copenhagen from Saturday to Monday, 26 to 28 September, inclusive.

After the Opening Session, on the first day of the meeting, when Mr. C. A. Jacobsson, Managing Director of AB Svenska Metallverken, warmly welcomed the members and their ladies on behalf of the Institute's hosts, the Autumn Lecture on "Life With Metals—Now and Tomorrow" was delivered by

cussions on a series of three papers by Swedish and British authors on the production of fine copper wire for enamelling; and on a series of papers on the corrosion of aluminium in nuclear reactors. The session on the production of fine copper wire for enamelling was particularly well attended, and many valuable contributions were made to the discussion.

On the Thursday morning a lively and most interesting discussion took place on a paper by two Swedish authors on "Extrusion as Compared with Other Methods for the Manufacture of Bar, Rod, and Wire-Rod in Copper and Copper-

AUTUMN MEETING IN SCANDINAVIA

Base Alloys". Contributions to the discussion were made by representatives of practically every British manufacturer of copper rod and wire, and also by speakers from Canada, France, and Switzerland. The authors were congratulated on their courage in submitting their stimulating paper for publication and discussion.

Their hosts had arranged a series of interesting visits for members to metallurgical and engineering works and laboratories in the Stockholm area and to the atomic energy plant at Studsvik, but the high spots were the all-day visits to the plants of AB Svenska Metallverken at Västerås and Finspong

long remain in the memory of those who were privileged to be invited. On behalf of the Institute's hosts, Mr. Jacobsson received the members in the Blue Hall, in which cocktails were served. The banquet and dance took place in the Golden Chamber and some of the beautiful rooms in the City Hall were open for the occasion.

The speech of welcome at the banquet was made by Mr. Jacobsson, on behalf of the hosts; the President expressed the warm thanks of members and their ladies for the generous way in which they had been received in Sweden; and the British Ambassador, as the principal guest, in happy and humorous



Banquet in the Golden Chamber of the City Hall, Stockholm.

and to the copper- and lead-smelting plant of Bolidens Gruv AB at Rönnskär. At each of these works the visitors saw many developments to interest them, and they were most grateful to their hosts for opening these fine works to their inspection and for their generous hospitality.

The ladies were also well catered for by a series of visits in and around Stockholm and by an all-day tour to Uppsala.

On the evening of the first day of the meeting, the British Ambassador, Sir Robert Hankey, who had previously attended Professor Rudberg's Autumn Lecture at the Kungl. Tekniska Högskolan, gave a cocktail party at the British Embassy to enable members and their ladies to meet a representative body of Swedish metallurgists and engineers with their wives. This was a start to the social side of the meeting that was greatly appreciated.

On the Tuesday, the Institute's hosts gave a banquet and dance in the City Hall, Stockholm. The generous hospitality of our hosts, offered in such magnificent surroundings, will

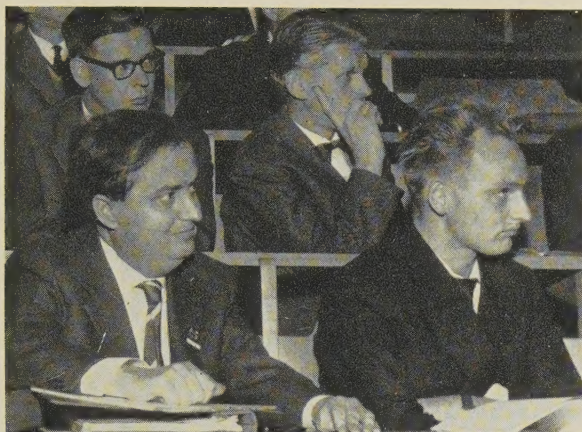
terms, made the customary speech of thanks to the hosts on behalf of all their guests. Dancing continued until the early hours of the morning.

In the course of a pleasant little ceremony at the conclusion of the technical session on Thursday morning, the thanks of the Institute were officially expressed to their hosts by Major C. J. P. Ball, the motion being seconded by Professor Hugh Ford.

On the Thursday evening the Council gave a dinner party at the Stallmästargården for representatives of the Institute's hosts and other distinguished guests.

Visit to Copenhagen

At the conclusion of the meeting in Sweden, a large proportion of those attending proceeded to Copenhagen where, on the Saturday afternoon, they were welcomed by Professor Count E. Knuth-Winterfeldt on behalf of the Danish Society



Four of the authors listen to the discussion on "The Production of Fine Copper Wire for Enamelling". Front row, Dr. F. Schückher and Mr. R. Nilsson. Behind, Mr. R. Kihlberg and Dr. S. Carlén.

of Metals. They enjoyed a sightseeing tour of Copenhagen and a visit to the National Museum by invitation of their hosts and were afterwards entertained to refreshments at the Engineering Society's Club. On the Sunday, the majority of members and ladies took part in a tour along the Sound to Kronborg Castle at Elsinore and had tea at Louisana, a museum of modern art. Others were entertained to lunch at his home by Mr. Sven Bergsøe, a member of the Institute, and were afterwards shown around his modern pig farm. This invitation was much appreciated.

On the Monday—the last day of the meeting—there were visits to metallurgical and engineering establishments and laboratories, the principal visit being to the works of A/S Nordiske Kabel- og Traadfabriker, of which our Corresponding Member for Denmark, Dr. Børge Lunn, is a Director. Ladies visited the silver works of Georg Jensen and the Royal Porcelain Factory. In the evening, Members of Council and their wives were entertained to dinner by the Institute's hosts at the Palace Hotel.

It was gratifying that no fewer than seven of the Corresponding Members to the Council were present at the Scandinavian meeting; they were the Corresponding Members for Australia, Denmark, Germany, Norway, Spain, Sweden, and Switzerland.



Informal discussion between Dr. N. P. Inglis, Professor J. G. Ball, and Dr. Ivor Jenkins. Behind, Dr. Børge Lunn, Corresponding Member to the Council for Denmark, and Professor Count E. Knuth-Winterfeldt.

Council Visit to Norway

Prior to the meeting in Sweden, the President and a party of Members of Council and their wives paid a visit to Norway in order to meet Members of Council of the Norwegian Metallurgical Society. They left Oslo for Porsgrunn on Wednesday, 16 September, and were entertained to dinner that evening by the Directors of the Porsgrunn Elektrometallurgiske and the Porsgrunn Metallverk A/S. On the following day they visited the works of these two companies and the magnesium plant of Norsk Hydro-Elektrisk Kvaestof A/S at Herøya, where they were entertained to lunch.

On the Thursday evening, the Council gave a dinner party at the Vic Hotel, Porsgrunn, for some of the management and technical representatives of companies whose works had been, or were to be, visited, and on the following day a visit was paid to the plant of Nordisk Aluminiumindustri at Holmestrand, where members were received by Mr. Nils Ramm, the Managing Director, and Mr. Holm Johnsen, the Works Director, and were entertained to lunch. In the afternoon



Mr. A. B. Noren, Managing Director of Bolidens Gruv AB (left), with the British Ambassador, Sir Robert Hankey, at the banquet.

the party proceeded to Oslo, where the Council gave a dinner party at the Bristol Hotel for the Members of Council of the Norwegian Metallurgical Society and some representatives of the Norwegian companies whose works had been visited.

PERSONAL NOTES

DR. STEVEN ALLEN has been awarded the Sc.D. degree of the Massachusetts Institute of Technology and is now at Manufacturing Laboratories Inc., Cambridge, Mass.

MR. L. BADONE has left Avro Aircraft, Ltd., and is now a Research Fellow in the Physical Metallurgy Division of the Department of Mines and Technical Surveys, Ottawa.

MR. J. H. BROPHY has been appointed Assistant Professor of Metallurgy at the Massachusetts Institute of Technology, Cambridge, Mass.

MR. E. G. COLEMAN has left the University of Wisconsin and is now working in the Physical Metallurgy Section of the Armour Research Foundation, Chicago.

NEWS OF LOCAL SECTIONS AND ASSOCIATED SOCIETIES

DR. H. FELDMANN, formerly of Kabel- und Metallwerke Neumeyer A.G., Nürnberg, is now with Cold Forging, Ltd., Sunbury-on-Thames.

MR. M. R. HINCHCLIFFE has left R. Taylor and Co. (Ironfounders), Ltd., Larbert, to join Universal Casting Developments, Ltd., London.

MR. J. HINDE has been appointed Manager of the Non-Ferrous Division of the Development Branch of The Mond Nickel Co., Ltd., London.

MR. L. W. JOHNSON has retired from his position as Assistant Manager of the Development and Research Department of The Mond Nickel Co., Ltd., London.

MR. H. K. JORGENSEN has relinquished his position as Managing Director of Impact Extrusions, Ltd., Feltham, and returned to Denmark. His address is now Andersen and Bruun's Fabriker A/S, Copenhagen. He will remain on the Board of Impact Extrusions, Ltd.

MR. T. M. KESSEL has left Johnson, Matthey and Co., Ltd., and taken up an appointment in the Research Organization of British Insulated Callender's Cables, Ltd., London.

MR. A. R. MADSEN has left Vickers-Armstrongs (Tractors), Ltd., and is now Works Metallurgist, Jarrow Tube Works, Ltd.

MR. B. L. MORDIKE is now engaged in research at the Institut für Metallphysik der Universität Göttingen.

DR. S. K. NOWAK has left Aluminium Laboratories, Ltd., Kingston, to take up an appointment as Chief Research Engineer, Atlas Titanium Co., Welland, Ont.

MR. G. C. PADGETT has left Sheffield University and is now X-ray Crystallographer with the Streetley Organization Research Department, Worksop, Notts.

MR. E. T. PETERS has left the University of Wisconsin and is now at the School of Mines, Columbia University, New York.

MR. L. J. REITSMA, JR., has left the Missouri School of Mines and Metallurgy, where he obtained the Ph.D. degree, and has taken up an appointment with the Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

DR. E. C. RHODES has been appointed Manager of the General Division (including plating, chemical products and nuclear power) of the Development Branch of The Mond Nickel Co., Ltd., London.

MR. H. ROSENTHAL is now at the U.S. Army Ordnance Arsenal, Frankford, Philadelphia.

DR. R. W. SMITH has left the University of Toronto and is now a Lecturer in the Department of Physical Metallurgy at Birmingham University.

MR. G. G. STOREY has left Birmingham University and is now a research and development metallurgist with Joseph Lucas (G.T.E.), Ltd., Birmingham.

MR. E. C. SYKES has left the Atomic Energy Research Establishment, Harwell, to join the staff of the Nuclear Laboratories of the Central Electricity Generating Board.

MR. S. WALSH has left Chloride Electrical Storage Co., Ltd., to join the U.K. Atomic Energy Authority.

DR. CLARENCE ZENER, Director of the Westinghouse Research Laboratories, Pittsburgh, Pa., has been awarded the John Price Wetherill Medal of the Franklin Institute.

Deaths

The Editor regrets to announce the deaths of:

MR. WILLIAM THOMAS BUTCHER, formerly Research Manager, Goodlass Wall and Lead Industries, Ltd., on 3 September.

MR. DOUGLAS S. GARDNER, Director and Works Manager of Glenfield and Kennedy, Ltd., Kilmarnock, on 20 September.

NEWS OF LOCAL SECTIONS AND ASSOCIATED SOCIETIES

Below are given some biographical details of two Local Section chairmen who have recently assumed office.

Dr. K. W. Andrews

(Chairman, Sheffield Local Section)

Kenneth William Andrews was born at Spalding in 1916 and educated at Boston Grammar School and at Manchester and Oxford Universities. He graduated at Manchester with First-Class Honours in Metallurgy in 1938, and obtained the D.Phil.



degree at Oxford for postgraduate work on the constitution of alloys of silver. He was awarded the degree of D.Sc. at Manchester University in 1956.

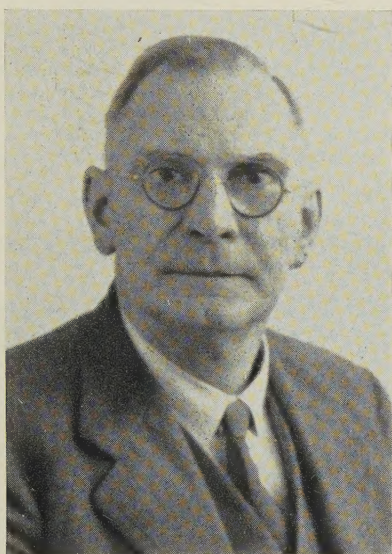
Dr. Andrews joined the United Steel Companies Limited in 1942 and has been head of the X-ray Section of the Research and Development Department since 1947. His interests include the structure and constitution of steels and alloys and the relation of structure to properties and service behaviour—publications include papers on the occurrence of carbides and sigma and other phases in alloy steels. He is also concerned with the study of refractories and other materials.

He joined the Institute of Metals in 1936 and has lately been associated with the Sheffield Local Section, where the distinction between ferrous and non-ferrous metallurgy does not seem very important! He is an active member of the Iron and Steel Institute and a Fellow of the Institution of Metallurgists and of the Institute of Physics. Dr. Andrews is a member of the Alloy Steel Committee of the British Iron and Steel Research Association, of the Joint Advisory Committee concerned with Micro-Beam Analysis, and of the British National Committee for Crystallography, representing The Iron and Steel Institute.

Mr. H. S. S. Murray

(Chairman, Scottish Local Section)

Herbert S. S. Murray was born at Wick, Caithness, and educated at Pultneytown Academy and the Royal Technical College, Glasgow. He served an engineering apprenticeship



in Motherwell and subsequently was connected with foundries and with the boilermaking, forging, and metal-finishing industries. He was until recently Managing Director of Electro-Platers, Ltd., Glasgow. Now, at the age of 75, Mr. Murray is thinking of retiring.

JOINT ACTIVITIES

Mond Nickel Fellowships

The Mond Nickel Fellowships Committee announced recently the award of Fellowships for 1959 to the following applicants:

MR. D. J. O. MANN (John Lysaght's Scunthorpe Works, Ltd.) to study the practical applications of recent metallurgical research and techniques to the production of basic semi-finished steel.

MR. N. J. B. POCOCK (Capper Pass and Son, Ltd.) to study developments in extractive metallurgy in the United Kingdom, Europe, the U.S.A., and Canada, and their dependence on the size and location of the organizations concerned.

DIARY

The Institute

- 3 December. Joint Meeting with the Bristol Section of the Society of Chemical Industry. "Beryllium Metal: Production, Properties, and Applications" by Dr. G. A. Wolstenholme. (Department of Chemistry, The University, Woodland Road, Bristol 8, at 6.0 p.m.)

Powder Metallurgy Joint Group

- 16 December. Symposium on "The Powder Metallurgy of Magnetic Materials". (Hoare Memorial Hall, Church House, Great Smith Street, London, S.W.1, at 9.30 a.m.)
- 16 December. Conversazione. (17 Belgrave Square, London, S.W.1, at 7.30 p.m.) (Tickets required.)

Local Sections and Associated Societies

- 1 December. Oxford Local Section. "Properties and Applications of Semi-Conductor Devices", by H. M. Ettinger. (Cadena Café, Cornmarket Street, Oxford, at 7.0 p.m.)
- 3 December. Leeds Metallurgical Society. "Materials for Supersonic Flight", by I. L. G. Baillie. (University Staff House, University Road, Leeds, at 6.30 p.m.)
- 3 December. Liverpool Metallurgical Society. "Basic Aspects of Metal Fatigue", by Dr. T. Broom. (Department of Metallurgy, University of Liverpool, 146 Brownlow Hill, Liverpool 3, at 7.0 p.m.)
- 8 December. South Wales Local Section. Discussion on "The Study of Metallurgy". Contributions by Professor A. R. E. Singer, Professor E. S. Sellers, Professor R. H. Macmillan, and Dr. M. R. Hopkins. (Royal Institution, Swansea, at 7.0 p.m.)
- 9 December. Manchester Metallurgical Society. "Guided Missiles: Metallurgical Problems as Seen by the Designer", by J. L. Crowder. (Manchester Room of The Central Library, Manchester, at 6.30 p.m.)
- 10 December. Birmingham Local Section. "Hot-Dip Galvanizing" by Dr. M. L. Hughes. (College of Technology, Gosta Green, Birmingham 4, at 6.30 p.m.)
- 10 December. East Midlands Metallurgical Society. "Vacuum Metallurgy". (The School of Art, Green Lane, Derby, at 7.30 p.m.)
- 10 December. Sheffield Local Section. "The Micro-mechanisms of Brittle Fracture in Mild Steel", by Professor W. S. Owen. (Applied Science Building, The University, St. George's Square, Sheffield 1, at 7.30 p.m.)
- 10 December. Southampton Metallurgical Society. "Corrosion and Microstructure", by Dr. C. Edeleanu (Engineering Block, Southampton University, at 7.15 p.m.)
- 15 December. Birmingham Local Section. "Men, Metals, and Machines", by Dr. J. Nutting. Christmas Lecture for Schoolchildren. (Large Theatre of the Birmingham and Midland Institute, Paradise Street, Birmingham 1, at 2.30 p.m.)
- 16 December. London Local Section. "Aluminium Castings", by J. Vickers. Joint meeting with the London Branch of the Institute of British Foundrymen. (The Constitutional Club, Northumberland Avenue, London, W.C.2, at 7.0 p.m.)

APPOINTMENTS VACANT

THE MOND NICKEL COMPANY LIMITED

Development and Research Department
Laboratory Birmingham

NON-FERROUS RESEARCH

Resulting from the continuous expansion in the fields of application for non-ferrous alloys containing nickel, an immediate vacancy exists for a metallurgist to work in the Non-Ferrous Alloy Section of this large and comprehensive Laboratory. This Section is responsible for the development of new nickel-base alloys and new aluminium-, copper-, and chromium-base alloys containing nickel for use in the chemical and general engineering fields. The post carries responsibility for the planning and conduct of research which is backed by the most modern and complete facilities. Publication of results is encouraged.

Preference will be given to candidates possessing an honours degree, or alternatively to those of proved experience and initiative.

Salary will be appropriate to the responsibilities of the post and to the qualifications and experience of the successful candidate. Pension and assurance schemes are in operation and, in appropriate cases, assistance can be given for housing. Applications, which will be treated in confidence, should give details of age, qualifications, experience, and salary required. They should be addressed to The General Manager, Development and Research Department, The Mond Nickel Company Limited, Thames House, Millbank, London, S.W.1. Please mark envelope "Confidential L.73".

METALLURGISTS and engineers, age 28-35, with good personality and ability to express themselves clearly in speech and writing, required for interesting and important work on the protection of steel. Knowledge of French and German useful. Excellent scope for imaginative and resourceful men. Applications to The Director, Zinc Development Association, 34 Berkeley Square, London, W.1.

UNIVERSITY OF QUEENSLAND

Lecturer in Physical Metallurgy

Applications are invited for the above position. Applicants should possess a degree (preferably an Honours or a higher degree) in Metallurgy or an equivalent qualification from a recognized University or University School of Mines; experience in Physical Metallurgy in industry or university work and/or evidence of research ability is essential; some experience in lecturing would be desirable.

Salary £A1540/£A2040 p.a.

Further particulars and application forms may be obtained from the Secretary, Association of Universities of the British Commonwealth, 36 Gordon Square, London, W.C.1.

Applications close on **30 November, 1959.**

A.E.R.E., HARWELL

requires

AN EXPERIMENTALIST to assist with research into the problems of applying radio-isotopes to metallurgy. The work involves the development of techniques of radio-tracers and radio-activation analysis in physical metallurgy and participation in an advisory service on the application of radioisotopes to industrial metallurgical processes.

Applicants should have G.C.E. at Advanced Level, H.N.C. or equivalent qualification, and experience in experimental metallurgical techniques. Possession of an appropriate University degree would be an advantage.

Salary: £500 (at age 20)—£1260, according to age and experience.

Housing and superannuation schemes.

Please send a POST CARD for details to Group Recruitment Officer (1493/228), A.E.R.E., Harwell, nr. Didcot, Berks.

ZEITSCHRIFT FÜR METALLKUNDE

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